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Detonation Producing Toy Device Utilizing Air Pressure

Technical Field

This utility model belongs to toy field, special concerns a toy device to produce detonation by pressing rubber film.

Background

The present air driving toy pistol or shooting bullet by air pressure or producing detonation by air driving, the effect is not good, and is not safe too.

Content

The purpose of this utility model is to provide a kind of method using pressing air acting on rubber film, make it expand till it bursts, so that can obtains better visual and vocal effect, and has not any harm.

To realize this utility model by following project:

A kind of detonation producing toy device utilizing air pressure, its character is: includes trigger mechanism、rubber film、air pump、seal body、gunpoint、rolling mechanism, when a trigger of the device is fired, air pump and seal body is pushed to make rubber film press fasten on gunpoint, power is on and drives air pump, presses air to rubber film, make it expand outwards of the gunpoint till it bursts; undo the trigger, power if off, all parts recover, under the action of recovering spring, the trigger provides new rubber film to gunpoint through rolling mechanism driven by gear, thus finish the shooting process, and repeat this process.

This interesting device is easy to operate, with simple structure, great safety.

Drawing description

FIG 1 is special structure explanation of the example of this utility model.

Special executive project

Following is detailed specification of best executive project of this utility model connected to the drawing:

As shown in the drawing, this utility model includes: gun body 1, power switch 2, rubber film 3, trigger mechanism 4, air pump 5, reposition spring 6, seal body 7, gunpoint 8, rolling mechanism 9, power 10. Gunpoint 8 is connected with gun body 1, power 10 is connected with air pump 5 through power switch 2, air pump 5 is connected with seal body 7, and glide in the slideway which set in the gun body 1, rolling mechanism 9 consists of gear, rack, driver wheel and driven wheel, when practicing this utility model, the trigger 4 is fired, cam part of the trigger pushes the air pump and seal body to gunpoint 8, clamps rubber film which is in the middle of them, form round seal part, trigger 4 presses power switch 2 then drive air pump 5, the pressing air presses the rubber film in the round seal part through air hole in the middle of the seal body 7, makes the rubber film expand outwards of gunpoint 8 till it bursts, produces detonation, finish the shoot, when undo the trigger, the power is off, air pump stops its working, trigger recovers under the action of reposition spring, and pushes the driver and driven wheels of rolling mechanism, makes the detonated rubber film roll on the rolling mechanism, and pulls the new rubber film stored in the driven wheel to the gunpoint position at the same time, prepares for the next shoot.

Rolling mechanism 9 does not connect with trigger mechanism, but connects with gun bolt outside of gun body 1, which is used to pull gun bolt to work the rolling mechanism 9, realizes the pulling bolt and shoot.